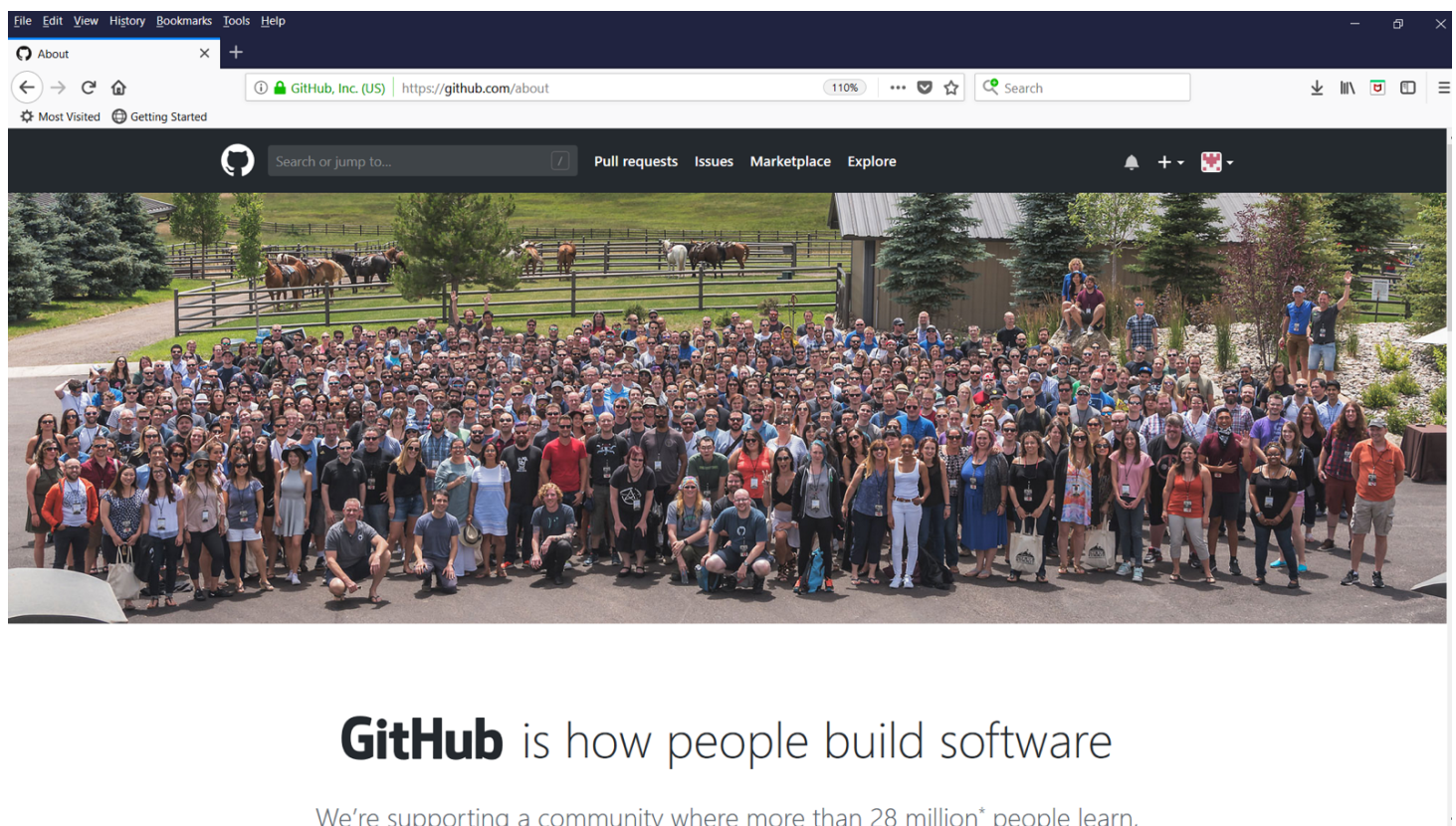


# Bonus Assignment

## Data Visualization for GitHub Issues

Author: Atef Bader Last Edit: 11/24/2018

## GitHub



## Deliverables:

- Submit a single zip-compressed file that has the name: YourLastName\_Bonus\_Assignment\_1 that has the following files:
  1. Your **PDF document** that has your Source code and output
  2. Your **ipynb script** that has your Source code and output

## Objectives:

- Learn how to process data stored in **JSON** file
- Learn how to visualize data in **Stacked Chart**
- Learn how to plot data on **HeatMap**

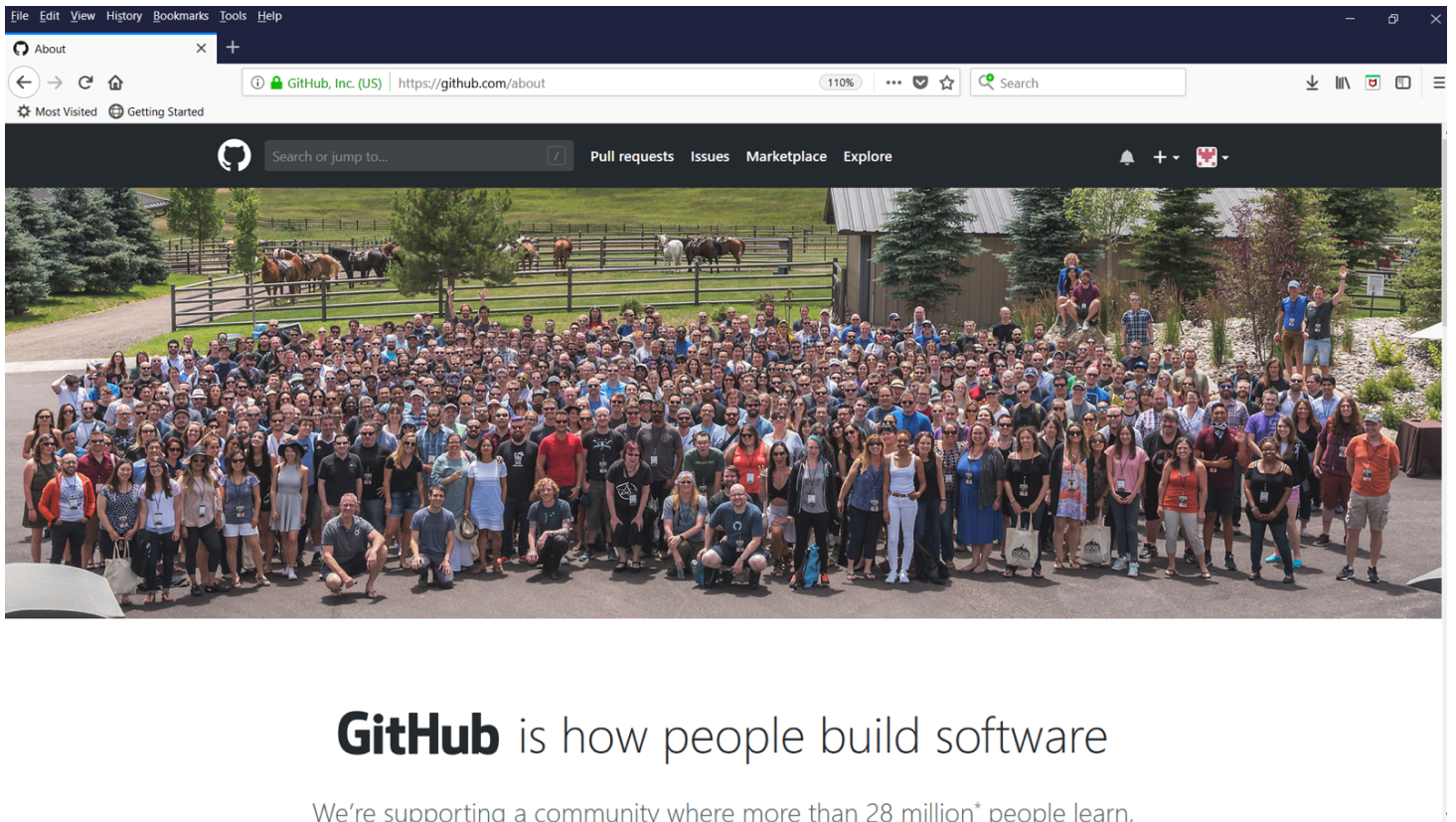
## Submission Formats :

Create a folder or directory with all supplementary files with your last name at the beginning of the folder name, compress that folder with zip compression, and post the zip-archived folder under the assignment link in Canvas. The following files should be included in an archive folder/directory that is uploaded as a single zip-compressed file. (Use zip, not Stuffit or any 7z or any other compression method.)

1. Complete IPYNB script that has the source code in Python used to access and analyze the data. The code should be submitted as an IPYNB script that can be loaded and run in Jupyter Notebook for Python
2. Output from the program, such as console listing/logs, text files, and graphics output for visualizations.
3. List file names and descriptions of files in the zip-compressed folder/directory.

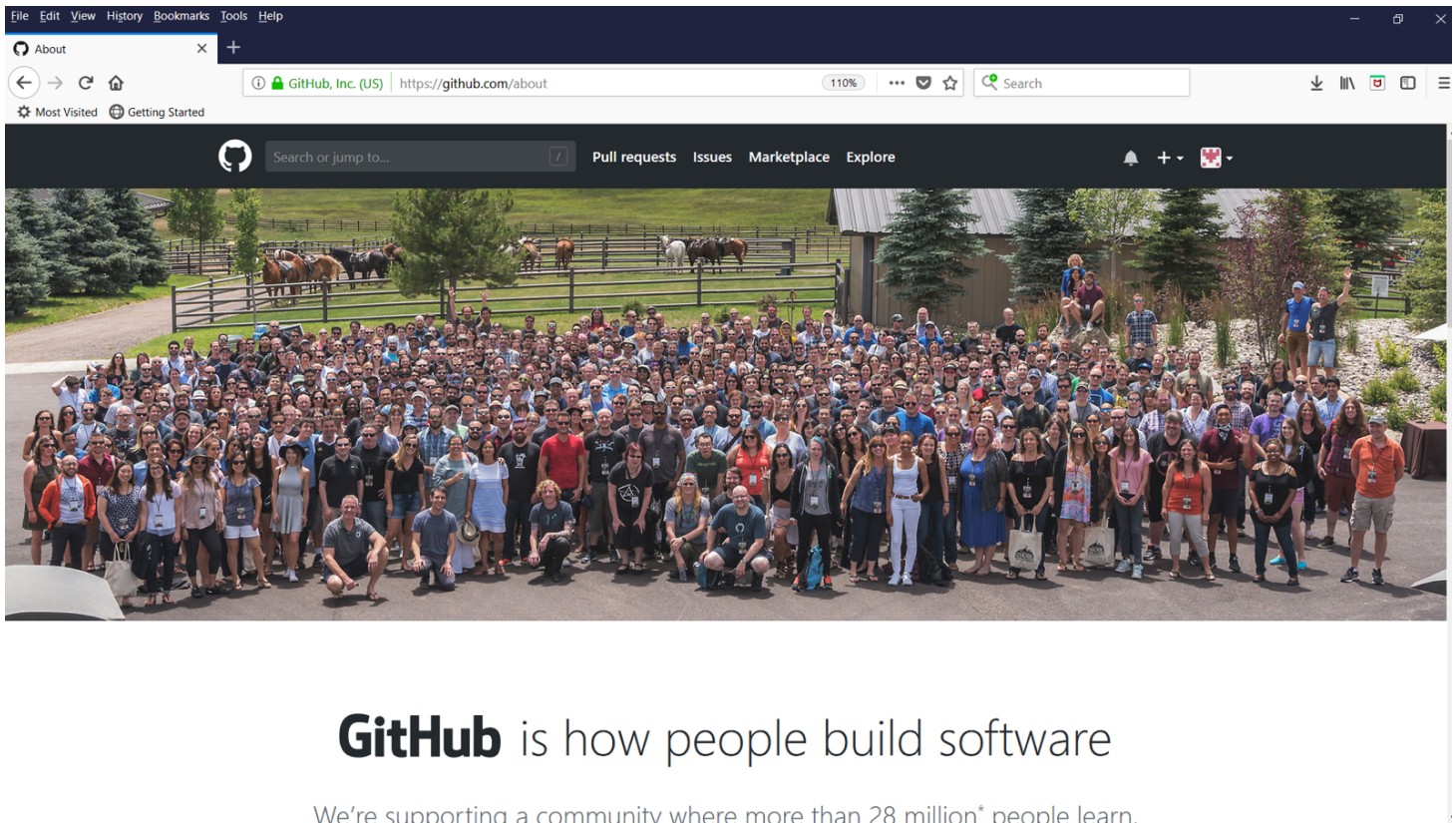
Formatting Python Code When programming in Python, refer to Kenneth Reitz' PEP 8: The Style Guide for Python Code: <http://pep8.org/> (<http://pep8.org/>) (Links to an external site.)Links to an external site. There is the Google style guide for Python at <https://google.github.io/styleguide/pyguide.html> (<https://google.github.io/styleguide/pyguide.html>) (Links to an external site.)Links to an external site. Comment often and in detail.

## GitHub Facts



## Microsoft acquired GitHub for \$7.5 Billion in 2018





## Documentation of GitHub Issues

Tutorial and Documentation on how issues are created and managed on GitHub can be found at this URL :

[Managing GitHub Issues \(https://help.github.com/categories/managing-your-work-on-github/\)](https://help.github.com/categories/managing-your-work-on-github/)

## Data Viualization for GitGub Issues

In this assignment you will learn how to plot the Graph for sample data of GitHub issues with different labels created and closed on different dates for a sample of data created for experimental purposes on GitHub

### Examples of Issue Form Filled out

```
"issue_number": 1219, "created_at": "2018-07-11", "closed_at": "2018-08-12", "labels": ["Address:111 W Jackson Blvd Chicago 60604", "Category:Bug", "DetectionPhase:Design", "OriginationPhase:Design", "Priority:Critical", "Status:Approved"], "State": "closed", "Author": "SEngineer68H" "issue_number": 11,
```

```
"created_at": "2018-01-09", "closed_at": null, "labels": ["Address:600 E GRAND AVE", "Category:Bug",
"DetectionPhase:Testing", "Latitude:41.891551", "Longitude:-87.607375", "OriginationPhase:Testing",
"Priority:Critical", "Status:Approved"], "State": "open", "Author": "HEngineer69D"
```

## Data Set File: issues.json

```
In [2]: import os

import _pickle as pickle

import pandas as pd           # panda's nickn
ame is pd

import numpy as np           # numpy as np

from pandas import DataFrame, Series   # for convenien
ce

import matplotlib.pyplot as plt

%matplotlib inline
```

## Reading the Dataset stored in JSON file :

Lets read the issues from the JSON file and plot them in a stacked chart

```
In [3]: # Read the JSON file and load the data into a list of dictionaries

import json

list_of_issues_dict_data = [json.loads(line) for line in open('GitHub_
issues.json')]
list_of_issues_dict_data
```

```
Out[3]: [{'issue_number': 803,
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'labels': ['Address:2525 S Martin Luther King Drive',
'Category:Bug',
'DetectionPhase:Testing',
'Latitude:41.853136',
'Longitude:-87.633160',
'OriginationPhase:Design',
'Priority:Critical',
'Status:Rejected'],
```

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'Priority:Critical',
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'Priority:Medium',
'Status:Approved'],
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'Author': 'PEngineer54P'},
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:42.041392',
'Longitude:-87.700113',
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'Priority:Medium',
'Status:pendingReview'],
'State': 'closed',
'Author': 'PEngineer99P'},
{'issue_number': 888,
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'Category:Bug',
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'Longitude:-87.700113'],
'State': 'closed',
'Author': 'JEngineer54B'},
```

```
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 'Author': 'CEngineer41G'},
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 'Status:Approved'],
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'OriginationPhase:Requirements',
'Priority:Medium',
'Status:Approved'],
'State': 'closed',
'Author': 'MEngineer47B'},
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'OriginationPhase:Requirements',
```



```

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```

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  'OriginationPhase:Design',
  'Priority:Critical',
  'Status:InProgress'],
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  'DetectionPhase:Design',
  'Latitude:41.847095',
  'Longitude:-87.616767',
  'OriginationPhase:Requirements',

```

```

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 'DetectionPhase:Design',
 'Latitude:41.893020',
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 'Author': 'MEngineer47B'},
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 'Priority:Critical',
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 'State': 'closed',
 'Author': 'SEngineer01V'},
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 'Longitude:-87.611958',
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 'DetectionPhase:Design',
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 'Longitude:-87.633160',
 'OriginationPhase:Design',
 'Priority:Critical',

```

```

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 'State': 'closed',
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 'OriginationPhase:Requirements',
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 'Author': 'MEngineer38Y'},
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 'Longitude:-87.638924',
 'OriginationPhase:Requirements',

```

```

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    'Author': 'HEngineer23P'},
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 'Longitude:-87.664548',
 'OriginationPhase:Design',
 'Priority:Medium',
 'Status:Approved'],
 'State': 'closed',
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 'OriginationPhase:Design',
 'Priority:Medium',
 'Status:pendingReview'],
 'State': 'closed',
 'Author': 'YEngineer46Z'},
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 'State': 'closed',
 'Author': 'AEngineer50W'},
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 'Author': 'AEngineer50W'},

```



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  'Author': 'AEngineer32L' },
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```

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 'Category:Bug',
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 'Longitude:-87.638924',
 'OriginationPhase:Requirements',
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 'Author': 'MEngineer01M'},
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 'DetectionPhase:Field',
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 'Category:Inquiry',
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 'Latitude:42.019798',
 'Longitude:-87.687698',
 'OriginationPhase:Design',
 'Priority:Critical',
 'Status:InProgress'],
 'State': 'closed',
 'Author': 'SEngineer01V'},
{'issue_number': 3791,
 'created_at': '2018-06-10',
 'closed_at': '2018-09-11',
 'labels': ['Address:1740 Orrington Ave',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Design',
 'Priority:Medium',
 'Status:pendingReview'],
 'State': 'closed',
 'Author': 'PEngineer99P'},
{'issue_number': 3788,
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 'closed_at': '2018-09-11',
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 'Latitude:42.049570',
 'Longitude:-87.680380'],
 'State': 'closed',

```

```
'Author': 'JEngineer54B'},
{'issue_number': 3787,
 'created_at': '2018-06-12',
 'closed_at': '2018-09-11',
 'labels': ['Address:1740 Orrington Ave',
 'Category:Inquiry',
 'DetectionPhase:Design',
 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Design',
 'Priority:Critical',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'CEngineer41G'},
{'issue_number': 3786,
 'created_at': '2018-06-12',
 'closed_at': '2018-09-11',
 'labels': ['Address:1740 Orrington Ave',
 'Category:Bug',
 'DetectionPhase:Testing',
 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Requirements',
 'Priority:Medium',
 'Status:pendingReview'],
 'State': 'closed',
 'Author': 'AEngineer91K'},
{'issue_number': 3782,
 'created_at': '2018-06-14',
 'closed_at': '2018-09-11',
 'labels': ['Address:1740 Orrington Ave',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Design',
 'Priority:Critical',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'KEngineer68P'},
{'issue_number': 3781,
 'created_at': '2018-06-14',
 'closed_at': '2018-09-10',
 'labels': ['Address:1740 Orrington Ave',
 'Category:Inquiry',
 'DetectionPhase:Design',
 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Requirements',
 'Priority:Medium',
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```
'Status:Approved'],
'State': 'closed',
'Author': 'PEngineer48S'},
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'closed_at': '2018-08-10',
'labels': ['Address:1740 Orrington Ave',
'Category:Enhancement',
'DetectionPhase:Testing',
'Latitude:42.049570',
'Longitude:-87.680380',
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'Priority:Critical',
'Status:inProgress'],
'State': 'closed',
'Author': 'SEngineer01V'},
{'issue_number': 3779,
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'closed_at': '2018-07-11',
'labels': ['Address:1740 Orrington Ave',
'Category:Inquiry',
'DetectionPhase:Testing',
'Latitude:42.049570',
'Longitude:-87.680380',
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'Priority:Medium',
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'State': 'closed',
'Author': 'REngineer13S'},
{'issue_number': 3778,
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'closed_at': '2018-07-11',
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:42.049570',
'Longitude:-87.680380',
'OriginationPhase:Requirements',
'Priority:Medium',
'Status:Approved'],
'State': 'closed',
'Author': 'MEngineer47B'},
{'issue_number': 3991,
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'closed_at': '2018-08-11',
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:42.049570',
'Longitude:-87.680380',
```

```

    'OriginationPhase:Design',
    'Priority:Medium',
    'Status:pendingReview'],
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    'Author': 'PEngineer99P'},
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 'closed_at': '2018-08-11',
 'labels': ['Address:1740 Orrington Ave',
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 'Latitude:42.049570',
 'Longitude:-87.680380'],
 'State': 'closed',
 'Author': 'JEngineer54B'},
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 'closed_at': '2018-08-11',
 'labels': ['Address:1740 Orrington Ave',
 'Category:Inquiry',
 'DetectionPhase:Testing',
 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Design',
 'Priority:Critical',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'CEngineer41G'},
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 'closed_at': '2018-08-11',
 'labels': ['Address:1740 Orrington Ave',
 'Category:Enhancement',
 'DetectionPhase:Testing',
 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Requirements',
 'Priority:Medium',
 'Status:pendingReview'],
 'State': 'closed',
 'Author': 'AEngineer91K'},
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 'closed_at': '2018-08-11',
 'labels': ['Address:1740 Orrington Ave',
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 'Latitude:42.049570',
 'Longitude:-87.680380',
 'OriginationPhase:Design',
 'Priority:Critical',

```

```
'Status:Approved'],
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'DetectionPhase:Design',
'Latitude:42.049570',
'Longitude:-87.680380',
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'Priority:Critical',
'Status:InProgress'],
'State': 'closed',
'Author': 'SEngineer01V'},
{'issue_number': 4791,
'created_at': '2018-07-10',
'closed_at': '2018-09-23',
'labels': ['Address:7523 N Clark St',
'Category:Bug',
'DetectionPhase:Design',
'Latitude:42.049920',
'Longitude:-87.683360',
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'Priority:Medium',
'Status:pendingReview'],
'State': 'closed',
'Author': 'PEngineer99P'},
{'issue_number': 4788,
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'closed_at': '2018-09-21',
'labels': ['Address:7523 N Clark St',
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'Latitude:42.049920',
'Longitude:-87.683360'],
'State': 'closed',
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'Author': 'JEngineer54B'},
{'issue_number': 4787,
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 'DetectionPhase:Design',
 'Latitude:42.049920',
 'Longitude:-87.683360',
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 'Priority:Critical',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'CEngineer41G'},
{'issue_number': 4786,
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 'closed_at': '2018-09-21',
 'labels': ['Address:7523 N Clark St',
 'Category:Enhancement',
 'DetectionPhase:Testing',
 'Latitude:42.049920',
 'Longitude:-87.683360',
 'OriginationPhase:Requirements',
 'Priority:Medium',
 'Status:pendingReview'],
 'State': 'closed',
 'Author': 'AEngineer91K'},
{'issue_number': 4782,
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 'closed_at': '2018-09-21',
 'labels': ['Address:7523 N Clark St',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:42.049920',
 'Longitude:-87.683360',
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 'Priority:Critical',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'KEngineer68P'},
{'issue_number': 4781,
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 'closed_at': '2018-09-20',
 'labels': ['Address:7523 N Clark St',
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 'Longitude:-87.683360',
 'OriginationPhase:Requirements',
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 'Latitude:42.049920',
 'Longitude:-87.683360',
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 'Priority:Critical',
 'Status:inProgress'],
 'State': 'closed',
 'Author': 'SEngineer01V'},
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 'Longitude:-87.683360',
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 'Priority:Medium',
 'Status:inProgress'],
 'State': 'closed',
 'Author': 'REngineer13S'},
{'issue_number': 4778,
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 'closed_at': '2018-09-21',
 'labels': ['Address:7523 N Clark St',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:42.049920',
 'Longitude:-87.683360',
 'OriginationPhase:Requirements',
 'Priority:Medium',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'MEngineer47B'},
{'issue_number': 4991,
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 'closed_at': '2018-08-21',
 'labels': ['Address:7523 N Clark St',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:42.049920',
 'Longitude:-87.683360',

```

```

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    'Priority:Medium',
    'Status:pendingReview'],
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    'Author': 'PEngineer99P'},
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 'closed_at': '2018-08-21',
 'labels': ['Address:7523 N Clark St',
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  'Latitude:42.049920',
  'Longitude:-87.683360'],
 'State': 'closed',
 'Author': 'JEngineer54B'},
{'issue_number': 4987,
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 'closed_at': '2018-08-21',
 'labels': ['Address:7523 N Clark St',
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  'DetectionPhase:Testing',
  'Latitude:42.049920',
  'Longitude:-87.683360',
  'OriginationPhase:Design',
  'Priority:Critical',
  'Status:Approved'],
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  'DetectionPhase:Testing',
  'Latitude:42.049920',
  'Longitude:-87.683360',
  'OriginationPhase:Requirements',
  'Priority:Medium',
  'Status:pendingReview'],
 'State': 'closed',
 'Author': 'AEngineer91K'},
{'issue_number': 4982,
 'created_at': '2018-07-14',
 'closed_at': '2018-08-21',
 'labels': ['Address:7523 N Clark St',
  'Category:Bug',
  'DetectionPhase:Testing',
  'Latitude:42.049920',
  'Longitude:-87.683360',
  'OriginationPhase:Design',
  'Priority:Critical',

```

```

    'Status:Approved'],
    'State': 'closed',
    'Author': 'KEngineer68P'},
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 'closed_at': '2018-08-20',
 'labels': ['Address:7523 N Clark St',
 'Category:Inquiry',
 'DetectionPhase:Testing',
 'Latitude:42.049920',
 'Longitude:-87.683360',
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 'Priority:Medium',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'PEngineer48S'},
{'issue_number': 4980,
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 'closed_at': '2018-08-20',
 'labels': ['Address:7523 N Clark St',
 'Category:Inquiry',
 'DetectionPhase:Design',
 'Latitude:42.049920',
 'Longitude:-87.683360',
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 'Priority:Critical',
 'Status:InProgress'],
 'State': 'closed',
 'Author': 'SEngineer01V'},
{'issue_number': 5791,
 'created_at': '2018-07-10',
 'closed_at': '2018-09-23',
 'labels': ['Address:3700 Touhy Avenue',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:42.012210',
 'Longitude:-87.721440',
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 'Priority:Medium',
 'Status:pendingReview'],
 'State': 'closed',
 'Author': 'PEngineer99P'},
{'issue_number': 5792,
 'created_at': '2018-07-10',
 'closed_at': '2018-09-23',
 'labels': ['Address:1115 Emerson St',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:42.052330',
 'Longitude:-87.687000',

```

```

    'OriginationPhase:Design',
    'Priority:Medium',
    'Status:pendingReview'],
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    'Author': 'PEngineer99P'},
{'issue_number': 5793,
 'created_at': '2018-07-12',
 'closed_at': '2018-09-21',
 'labels': ['Address:3535 Dempster Street',
  'Category:Enhancement',
  'DetectionPhase:Testing',
  'Latitude:42.034912',
  'Longitude:-87.637410',
  'OriginationPhase:Requirements',
  'Priority:Medium',
  'Status:pendingReview'],
 'State': 'closed',
 'Author': 'AEngineer91K'},
{'issue_number': 5794,
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 'closed_at': '2018-09-21',
 'labels': ['Address:1729 Sherman Ave',
  'Category:Enhancement',
  'Latitude:42.049540',
  'Longitude:-87.681330'],
 'State': 'closed',
 'Author': 'JEngineer54B'},
{'issue_number': 5795,
 'created_at': '2018-07-12',
 'closed_at': '2018-08-21',
 'labels': ['Address:1241 Chicago Ave',
  'Category:Inquiry',
  'DetectionPhase:Testing',
  'Latitude:42.049541',
  'Longitude:-87.681328',
  'OriginationPhase:Design',
  'Priority:Critical',
  'Status:Approved'],
 'State': 'closed',
 'Author': 'CEngineer41G'},
{'issue_number': 5796,
 'created_at': '2018-07-14',
 'closed_at': '2018-09-21',
 'labels': ['Address:1700 Sherman Ave ',
  'Category:Bug',
  'DetectionPhase:Design',
  'Latitude:42.040640',
  'Longitude:-87.680340',
  'OriginationPhase:Design',
  'Priority:Critical',

```



```

        'Status:Approved'],
        'State': 'closed',
        'Author': 'KEngineer68P'},
{'issue_number': 5797,
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 'closed_at': '2018-09-20',
 'labels': ['Address:3232 Lake Ave',
 'Category:Inquiry',
 'DetectionPhase:Design',
 'Latitude:42.081620',
 'Longitude:-87.756620',
 'OriginationPhase:Requirements',
 'Priority:Medium',
 'Status:Approved'],
 'State': 'closed',
 'Author': 'PEngineer48S'}}]

```

```

In [4]: # Create the DataFrame object for the list_of_issues_dict_data object

issues_df = DataFrame(list_of_issues_dict_data)

```

[notice labels contains the info; probably needs splitting]

```

In [5]: # Sanity test: print first 5 rows in our DataFrame

issues_df.head()

```

Out[5]:

	Author	State	closed_at	created_at	issue_number	labels
0	SPM587SP18	closed	2018-04-09	2018-04-02	803	[Address:2525 S Martin Luther King Drive, Cate...
1	SPM587SP18	closed	2018-04-06	2018-03-30	802	[Address:2525 S Martin Luther King Drive, Cate...
2	PEngineer54P	closed	2018-08-10	2018-05-10	894	[Address:111 W JACKSON, Category:Bug, Detectio...
3	PEngineer99P	closed	2018-08-11	2018-04-10	891	[Address:1919 Dempster Street, Category:Bug, D...
4	JEngineer54B	closed	2018-08-11	2018-06-10	888	[Address:1919 Dempster Street, Category:Bug, L...

```
In [6]: # Prepare and Clean the dataframe object

wrangled_issues_df = issues_df[['Author', 'State', 'closed_at', 'created_at', 'issue_number']]
wrangled_issues_df.loc[0:len(wrangled_issues_df), 'OriginationPhase'] = np.NaN

wrangled_issues_df.loc[0:len(wrangled_issues_df), 'DetectionPhase'] = np.NaN

wrangled_issues_df.loc[0:len(wrangled_issues_df), 'Category'] = np.NaN
wrangled_issues_df.loc[0:len(wrangled_issues_df), 'Priority'] = np.NaN
wrangled_issues_df.loc[0:len(wrangled_issues_df), 'Status'] = np.NaN
wrangled_issues_df.loc[0:len(wrangled_issues_df), 'Address'] = np.NaN
wrangled_issues_df.loc[0:len(wrangled_issues_df), 'Latitude'] = np.NaN
wrangled_issues_df.loc[0:len(wrangled_issues_df), 'Longitude'] = np.NaN
```

```
In [7]: #Sanity test the content of the dataframe object

wrangled_issues_df.head()
wrangled_issues_df[(wrangled_issues_df.created_at.str[2:4]=='18') & (wrangled_issues_df.created_at.str[5:7]=='04')]
```

Out[7]:

	Author	State	closed_at	created_at	issue_number	OriginationPhase	DetectionP
0	SPM587SP18	closed	2018-04-09	2018-04-02	803	NaN	
3	PEngineer99P	closed	2018-08-11	2018-04-10	891	NaN	
5	CEngineer41G	closed	2018-06-11	2018-04-10	887	NaN	
7	KEngineer68P	closed	2018-06-11	2018-04-10	882	NaN	
10	REngineer13S	closed	2018-04-11	2018-04-10	879	NaN	
12	PEngineer54P	closed	2018-04-10	2018-04-10	694	NaN	
14	JEngineer54B	closed	2018-04-11	2018-04-10	688	NaN	
16	AEngineer91K	closed	2018-04-11	2018-04-10	686	NaN	
17	KEngineer68P	closed	2018-04-11	2018-04-10	682	NaN	
18	PEngineer48S	closed	2018-04-10	2018-04-10	681	NaN	
19	SEngineer01V	closed	2018-04-	2018-04-	680	NaN	

			10	10		
21	MEngineer47B	closed	2018-04-11	2018-04-10	678	NaN
22	SEngineer01V	closed	2018-04-10	2018-04-10	677	NaN
25	SEngineer86K	closed	2018-04-10	2018-04-10	667	NaN
27	MEngineer38Y	closed	2018-04-11	2018-04-09	661	NaN
28	HEngineer23P	closed	2018-04-10	2018-04-09	660	NaN
29	PEngineer08M	closed	2018-04-10	2018-04-09	658	NaN
30	YEngineer46Z	closed	2018-04-10	2018-04-09	657	NaN
31	AEngineer50W	closed	2018-04-22	2018-04-20	575	NaN
32	AEngineer50W	closed	2018-04-22	2018-04-19	574	NaN
33	AEngineer40K	closed	2018-04-14	2018-04-14	572	NaN
34	AEngineer19N	closed	2018-04-14	2018-04-14	570	NaN
35	AEngineer32L	closed	2018-04-13	2018-04-13	566	NaN
36	AEngineer19N	closed	2018-04-13	2018-04-13	564	NaN
37	MEngineer65B	closed	2018-04-13	2018-04-13	561	NaN
38	YEngineer35Z	closed	2018-04-13	2018-04-13	554	NaN
39	HEngineer50W	closed	2018-04-22	2018-04-20	475	NaN
40	HEngineer50W	closed	2018-04-22	2018-04-19	474	NaN
41	YEngineer40K	closed	2018-04-14	2018-04-14	472	NaN
42	REngineer19N	closed	2018-04-14	2018-04-14	470	NaN
...	...	...	...	...	...	...
311	REngineer25A	closed	2018-04-11	2018-04-11	1205	NaN

<b>312</b>	SEngineer10S	closed	2018-04-11	2018-04-11	1201	NaN
<b>313</b>	MEngineer52A	closed	2018-04-11	2018-04-11	1197	NaN
<b>314</b>	YEngineer71Z	closed	2018-04-11	2018-04-11	1196	NaN
<b>315</b>	HEngineer81C	closed	2018-04-11	2018-04-11	1193	NaN
<b>316</b>	AEngineer05A	closed	2018-04-11	2018-04-11	1191	NaN
<b>317</b>	SEngineer19P	closed	2018-04-11	2018-04-11	1190	NaN
<b>318</b>	SEngineer48S	closed	2018-04-11	2018-04-11	1186	NaN
<b>319</b>	NEngineer35K	closed	2018-04-11	2018-04-11	1184	NaN
<b>320</b>	AEngineer23P	closed	2018-04-11	2018-04-11	1183	NaN
<b>321</b>	SEngineer62K	closed	2018-04-11	2018-04-11	1179	NaN
<b>322</b>	SEngineer68H	closed	2018-04-11	2018-04-11	1178	NaN
<b>323</b>	GEngineer22M	closed	2018-04-11	2018-04-11	1177	NaN
<b>324</b>	SEngineer17K	closed	2018-04-11	2018-04-11	1176	NaN
<b>325</b>	PEngineer24D	closed	2018-04-11	2018-04-11	1175	NaN
<b>326</b>	PEngineer54P	open	None	2018-04-11	1174	NaN
<b>327</b>	MEngineer10S	closed	2018-04-11	2018-04-11	1172	NaN
<b>328</b>	JEngineer43I	closed	2018-04-11	2018-04-11	1169	NaN
<b>329</b>	DEngineer14S	closed	2018-04-11	2018-04-11	1167	NaN
<b>330</b>	AEngineer22S	open	None	2018-04-11	1165	NaN
<b>331</b>	ZEngineer44L	closed	2018-04-11	2018-04-11	1164	NaN
<b>332</b>	CEngineer33S	closed	2018-04-11	2018-04-11	1163	NaN
			2018-04-	2018-04-		

333	JEngineer08Y	closed	11	11	1158	NaN
334	MEngineer01M	open	None	2018-04-11	1157	NaN
335	AEngineer05S	closed	2018-04-11	2018-04-11	1153	NaN
336	PEngineer54P	closed	2018-08-10	2018-04-10	1794	NaN
344	REngineer13S	closed	2018-04-11	2018-04-14	1779	NaN
345	MEngineer47B	closed	2018-04-11	2018-04-10	1778	NaN
353	REngineer13S	closed	2018-04-11	2018-04-14	1979	NaN
354	MEngineer47B	closed	2018-04-11	2018-04-10	1978	NaN

297 rows × 13 columns

[this is brilliant code. similar but way better than what i have used elsewhere. \*\*\*\*\* this line of code subject of the 2nd for below. it gens a LIST of entries and the for goes thru the list 1by1 which is why the print gens items rather than a full list. so you get the benefits of dict and benefits of list if youre willing to do the manual key:value via splitting. the second brilliant part is dynamically getting row number, lable name and assigning the label value.]

```
In [8]: issues_df.iloc[0]['labels']
```

```
Out[8]: ['Address:2525 S Martin Luther King Drive',
'Category:Bug',
'DetectionPhase:Testing',
'Latitude:41.853136',
'Longitude:-87.633160',
'OriginationPhase:Design',
'Priority:Critical',
'Status:Rejected']
```

```
In [9]: # we need to create a list of the key:value pairs in labels

for i in range(0, len(issues_df)):

    if issues_df.iloc[i]['labels']:
        for label in issues_df.iloc[i]['labels']:
            print(label)
            label_name= (label.split(':')[0])
            label_value= (label.split(':')[1])
            wrangled_issues_df.loc[i, label_name]=label_value
```

Address:2525 S Martin Luther King Drive  
Category:Bug  
DetectionPhase:Testing  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Design  
Priority:Critical  
Status:Rejected  
Address:2525 S Martin Luther King Drive  
Category:Bug  
DetectionPhase:Testing  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Design  
Priority:Critical  
Status:Rejected  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:1919 Dempster Street  
Category:Bug  
Latitude:42.041392  
Longitude:-87.700113  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Requirements

Priority:Medium  
Status:pendingReview  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
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Longitude:-87.700113  
OriginationPhase:Design  
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Status:Approved  
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Category:Bug  
DetectionPhase:Design  
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OriginationPhase:Requirements  
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Status:Approved  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
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Longitude:-87.700113  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved

Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
Latitude:41.847066  
Longitude:-87.686791  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:420 Desplaines Ave Forest Park IL 60130  
Category:Bug  
DetectionPhase:Design  
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OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
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Category:Bug  
DetectionPhase:Design  
Latitude:41.951072  
Longitude:-88.119872  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Design



Priority:Critical  
Status:inProgress  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
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Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Category:Bug  
DetectionPhase:Design  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:2301 S Lake Shore Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Drive  
Category:Bug  
DetectionPhase:Design  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2301 S Lake Shore Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design

Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Category:Bug  
DetectionPhase:Design  
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Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
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Category:Bug  
DetectionPhase:Design  
Latitude:41.878693  
Longitude:-87.638924  
OriginationPhase:Requirements  
Priority:Critical  
Status:pendingReview  
Address:6336 S Ashland Ave  
Category:Bug  
Latitude:41.777989  
Longitude:-87.664548  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:3020 S Halsted  
Category:Bug  
DetectionPhase:Design  
Latitude:41.838897  
Longitude:-87.646804  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Status:inProgress  
Address:59 W Grand Ave Chicago IL 60654  
Category:Bug  
DetectionPhase:Design  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High

Status:inProgress  
Category:Enhancement  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Major  
Status:Completed  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Status:pendingReview  
Address:2400 N Lincoln Ave Chicago IL 60614  
Category:Bug  
Latitude:41.925573  
Longitude:-87.649249  
OriginationPhase:Requirements  
Category:Bug  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Critical  
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DetectionPhase:Testing  
OriginationPhase:Requirements  
Priority:Critical  
Status:Completed  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
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Address:59 W Grand Ave Chicago IL 60654  
Category:Bug  
DetectionPhase:Design  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
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Category:Enhancement  
DetectionPhase:Testing  
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Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding

Priority:High  
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Category:Bug  
Latitude:41.925573  
Longitude:-87.649249  
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Priority:High  
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DetectionPhase:Testing  
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Priority:Major  
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Priority:Critical  
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Status:Approved

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DetectionPhase:Testing

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Priority:High  
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DetectionPhase:Field

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Category:Enhancement  
DetectionPhase:Testing  
Priority:Critical  
Status:Completed  
Category:Bug



DetectionPhase:Testing  
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Category:Bug  
DetectionPhase:Testing  
OriginationPhase:Requirements  
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Priority:High  
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Category:Enhancement  
DetectionPhase:Testing  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Category:Bug  
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Longitude:-87.611958  
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Priority:High  
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Category:Enhancement  
DetectionPhase:Testing  
OriginationPhase:Requirements  
Priority:Major  
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Category:Inquiry  
DetectionPhase:Field  
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Priority:High  
Status:pendingReview  
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Priority:Critical

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Status:inProgress  
Category:Bug  
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Category:Enhancement  
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Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Testing  
Priority:High  
Status:pendingReview  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847441  
Longitude:-87.679408  
OriginationPhase:Design  
Status:Completed  
Category:Enhancement  
DetectionPhase:Testing

OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Category:Bug  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Testing  
Priority:High  
Status:inProgress  
Address:3020 S Halsted St Chicago IL 60608  
Category:Bug  
DetectionPhase:Design  
Latitude:41.838897  
Longitude:-87.646804  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Category:Enhancement  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Critical  
Status:Completed  
Category:Enhancement  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Category:Enhancement  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Major  
Status:Completed  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Design  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Status:inProgress  
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Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Documentation  
Priority:Medium

Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:Low  
Status:pendingReview  
Category:Bug  
DetectionPhase:Testing  
Priority:Critical  
Status:Approved  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
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Status:pendingReview  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:Medium  
Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Testing  
Priority:Low  
Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Status:pendingReview  
Address:3020 S Halsted St Chicago IL 60608  
Category:Bug  
DetectionPhase:Design  
Latitude:41.838897  
Longitude:-87.646804  
Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug

DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:600 N Clark St Chicago IL 60610  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
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Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
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Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
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DetectionPhase:Design  
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Status:Approved  
Address:1664 S Blue Island Ave Chicago IL 60608  
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DetectionPhase:Design  
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Longitude:-87.660926  
OriginationPhase:Requirements

Priority:Critical  
Status:pendingReview  
Address:111 W Jackson Blvd Chicago 60604  
Category:Bug  
DetectionPhase:Design  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:600 N Clark St Chicago IL 60610  
Category:Bug  
DetectionPhase:Design  
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Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:59 W Grand Ave Chicago IL 60654  
Category:Bug  
DetectionPhase:Design  
Latitude:41.891368  
Longitude:-87.630399  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
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Category:Bug  
DetectionPhase:Design  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
Latitude:41.847441  
Longitude:-87.631247  
Status:Approved  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:225 S Canal St Chicago IL 60606  
Category:Bug  
Latitude:41.878693  
Longitude:-87.638924  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved

Address:233 W Jackson Blvd Chicago IL 60606  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877948  
Longitude:-87.634926  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2301 S Lake Shore Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2301 S Lake Shore Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Category:Enhancement  
DetectionPhase:Coding  
Latitude:41.809739  
Longitude:-87.607105  
OriginationPhase:Coding  
Priority:Major  
Status:Completed  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design

Latitude:41.847095  
Longitude:-87.616767  
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Priority:Critical  
Status:pendingReview  
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Category:Bug  
DetectionPhase:Design  
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OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
Priority:Critical  
Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Priority:Critical  
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Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
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Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
Latitude:41.877817



Longitude:-87.631247  
OriginationPhase:Requirements  
Status:Approved  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Testing  
Priority:High  
Status:inProgress  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:pendingReview  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847088  
Longitude:-87.616752  
OriginationPhase:Requirements  
Priority:Critical  
Status:inProgress  
Address:111 W Jackson Blvd Chicago 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design

Latitude:41.847441  
Longitude:-87.679408  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:420 Desplaines Ave Forest Park IL 60130  
Category:Bug  
Latitude:41.879094  
Longitude:-87.813483  
OriginationPhase:Requirements  
Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.617419  
OriginationPhase:Requirements  
Priority:Critical  
Status:inProgress  
Address:420 Desplaines Ave Forest Park IL 60130  
Category:Bug  
DetectionPhase:Design  
Latitude:41.879094  
Longitude:-87.813483  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:600 N Clark St Chicago IL 60610  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium

Status:InProgress  
Address:111 W Jackson Blvd Chicago 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:2525 S King Dr Chicago IL 60616  
Category:Bug  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Category:Bug  
Latitude:41.858415  
Longitude:-87.673140  
OriginationPhase:Design  
Status:InProgress  
Address:119 NORTH WABASH  
Category:Bug  
DetectionPhase:Design  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:225 S Canal St Chicago IL 60606  
Category:Bug  
DetectionPhase:Design  
Latitude:41.878693  
Longitude:-87.638924  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296

OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:645 N MCCLURG CT  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893230  
Longitude:-87.617419  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847088  
Longitude:-87.616752  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:inProgress  
Address:225 S Canal St Chicago IL 60606  
Category:Bug  
DetectionPhase:Design  
Latitude:41.878693  
Longitude:-87.638924  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:2301 S Lake Shore Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:1664 S Blue Island Ave Chicago IL 60608  
Category:Enhancement  
DetectionPhase:Design  
Latitude:41.858415  
Longitude:-87.660926  
OriginationPhase:Requirements  
Priority:Medium

Status:pendingReview  
Address:111 W Jackson Blvd Chicago 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:3020 S Halsted St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.838897  
Longitude:-87.646804  
OriginationPhase:Requirements  
Priority:Critical  
Status:inProgress  
Address:4550 N Cumberland Ave Chicago IL 60656  
Category:Bug  
DetectionPhase:Design  
Latitude:41.962450  
Longitude:-87.837132  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:2525 S Martin Luther King Dr

Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:3020 S Halsted  
Category:Bug  
DetectionPhase:Design  
Latitude:41.838897  
Longitude:-87.646804  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
Latitude:41.847066  
Longitude:-87.686791  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:420 Desplaines Ave Forest Park IL 60130  
Category:Bug  
DetectionPhase:Design  
Latitude:41.879094  
Longitude:-87.813483  
OriginationPhase:Requirements  
Priority:Medium

Status:pendingReview  
Address:72 Stratford Dr Bloomingdale IL 60108  
Category:Bug  
DetectionPhase:Design  
Latitude:41.951072  
Longitude:-88.119872  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Category:Bug  
DetectionPhase:Design  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:2301 S Lake Shore Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623

Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Drive  
Category:Bug  
DetectionPhase:Design  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2301 S Lake Shore Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:225 S Canal St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.878693  
Longitude:-87.638924  
OriginationPhase:Requirements  
Priority:Critical  
Status:pendingReview  
Address:6336 S Ashland Ave  
Category:Bug  
Latitude:41.777989  
Longitude:-87.664548  
OriginationPhase:Design  
Priority:Medium  
Status:Approved



Address:3020 S Halsted  
Category:Bug  
DetectionPhase:Design  
Latitude:41.838897  
Longitude:-87.646804  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:2525 S Martin Luther King Drive  
Category:Bug  
DetectionPhase:Field  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Design  
Priority:High  
Status:Approved  
Address:645 N MCCLURG CT  
Category:Inquiry  
DetectionPhase:Field  
Latitude:41.893230  
Longitude:-87.617419  
OriginationPhase:Field  
Priority:Critical  
Status:inProgress  
Address:2525 S Martin Luther King Drive  
Category:Inquiry  
DetectionPhase:Field  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Testing  
Priority:High  
Status:Completed  
Address:600 E GRAND AVE  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:41.891551  
Longitude:-87.607375  
OriginationPhase:Testing  
Priority:High  
Status:Rejected  
Address:119 NORTH WABASH  
Category:Bug

DetectionPhase:Testing  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Coding  
Priority:High  
Status:pendingReview  
Address:645 N MCCLURG CT  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:41.893230  
Longitude:-87.617419  
OriginationPhase:Field  
Priority:Major  
Status:pendingReview  
Address:111 W JACKSON  
Category:Enhancement  
DetectionPhase:Field  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Rejected  
Address:23 S CLARK  
Category:Enhancement  
DetectionPhase:Field  
Latitude:41.880982  
Longitude:-87.630553  
OriginationPhase:Documentation  
Priority:Major  
Status:inProgress  
Address:1951 N WESTERN AVE  
Category:Enhancement  
DetectionPhase:Coding  
Latitude:41.917164  
Longitude:-87.686965  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:1951 N WESTERN AVE  
Category:Bug  
DetectionPhase:Design  
Latitude:41.917164  
Longitude:-87.686965  
OriginationPhase:Field  
Priority:Critical  
Status:Approved  
Address:600 E GRAND AVE  
Category:Enhancement  
DetectionPhase:Field  
Latitude:41.891551

Longitude:-87.607375  
OriginationPhase:Requirements  
Priority:High  
Status:Completed  
Address:119 NORTH WABASH  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Testing  
Priority:Low  
Status:inProgress  
Address:1951 N WESTERN AVE  
Category:Bug  
DetectionPhase:Coding  
Latitude:41.917164  
Longitude:-87.686965  
OriginationPhase:Coding  
Priority:Major  
Status:pendingReview  
Address:645 N MCCLURG CT  
Category:Enhancement  
DetectionPhase:Design  
Latitude:41.893230  
Longitude:-87.617419  
OriginationPhase:Design  
Priority:Medium  
Status:Rejected  
Address:600 E GRAND AVE  
Category:Enhancement  
DetectionPhase:Field  
Latitude:41.891551  
Longitude:-87.607375  
OriginationPhase:Documentation  
Priority:Critical  
Status:Approved  
Address:119 NORTH WABASH  
Category:Enhancement  
DetectionPhase:Coding  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Requirements  
Priority:Low  
Status:inProgress  
Address:111 W JACKSON  
Category:Inquiry  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Testing

Priority:Major  
Status:pendingReview  
Address:23 S CLARK  
Category:Bug  
DetectionPhase:Field  
Latitude:41.880982  
Longitude:-87.630553  
OriginationPhase:Coding  
Priority:Medium  
Status:Rejected  
Address:119 NORTH WABASH  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:119 NORTH WABASH  
Category:Bug  
DetectionPhase:Design  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Field  
Priority:Low  
Status:inProgress  
Address:111 W JACKSON  
Category:Enhancement  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Design  
Priority:High  
Status:Completed  
Address:23 S CLARK  
Category:Bug  
DetectionPhase:Coding  
Latitude:41.880982  
Longitude:-87.630553  
OriginationPhase:Coding  
Priority:Critical  
Status:Approved  
Address:1951 N WESTERN AVE  
Category:Bug  
DetectionPhase:Coding  
Latitude:41.917164  
Longitude:-87.686965  
OriginationPhase:Coding  
Priority:Low  
Status:inProgress

Address:645 N MCCLURG CT  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:41.893230  
Longitude:-87.617419  
OriginationPhase:Testing  
Priority:High  
Status:Completed  
Address:1951 N WESTERN AVE  
Category:Enhancement  
DetectionPhase:Field  
Latitude:41.917164  
Longitude:-87.686965  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:645 N MCCLURG CT  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893230  
Longitude:-87.617419  
OriginationPhase:Field  
Priority:Medium  
Status:Rejected  
Address:600 E GRAND AVE  
Category:Inquiry  
DetectionPhase:Coding  
Latitude:41.891551  
Longitude:-87.607375  
OriginationPhase:Documentation  
Priority:Major  
Status:pendingReview  
Address:119 NORTH WABASH  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Design  
Priority:Low  
Status:inProgress  
Address:111 W JACKSON  
Category:Inquiry  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Testing  
Priority:Critical  
Status:Approved  
Address:119 NORTH WABASH  
Category:Enhancement

DetectionPhase:Coding  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Requirements  
Priority:Medium  
Status:Rejected  
Address:119 NORTH WABASH  
Category:Bug  
DetectionPhase:Testing  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Field  
Priority:Major  
Status:pendingReview  
Address:111 W JACKSON  
Category:Inquiry  
DetectionPhase:Field  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Documentation  
Priority:Low  
Status:inProgress  
Address:23 S CLARK  
Category:Enhancement  
DetectionPhase:Design  
Latitude:41.880982  
Longitude:-87.630553  
OriginationPhase:Design  
Priority:High  
Status:Completed  
Address:23 S CLARK  
Category:Inquiry  
DetectionPhase:Coding  
Latitude:41.880982  
Longitude:-87.630553  
OriginationPhase:Coding  
Priority:Critical  
Status:Approved  
Address:2525 S Martin Luther King Drive  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Field  
Priority:Medium  
Status:inProgress  
Address:1951 N WESTERN AVE  
Category:Bug  
DetectionPhase:Coding  
Latitude:41.917164

Longitude:-87.686965  
OriginationPhase:Documentation  
Priority:Low  
Status:pendingReview  
Address:645 N MCCLURG CT  
Category:Enhancement  
DetectionPhase:Field  
Latitude:41.893230  
Longitude:-87.617419  
OriginationPhase:Coding  
Priority:High  
Status:Completed  
Address:645 N MCCLURG CT  
Category:Inquiry  
DetectionPhase:Field  
Latitude:41.893230  
OriginationPhase:Coding  
Priority:Critical  
Status:Approved  
Address:600 E GRAND AVE  
Category:Bug  
DetectionPhase:Testing  
Latitude:41.891551  
Longitude:-87.607375  
OriginationPhase:Testing  
Priority:Critical  
Status:Approved  
Address:119 NORTH WABASH  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Field  
Priority:Major  
Status:Rejected  
Address:119 NORTH WABASH  
Category:Bug  
DetectionPhase:Field  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Field  
Priority:Major  
Status:pendingReview  
Address:111 W JACKSON  
Category:Inquiry  
DetectionPhase:Field  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Documentation  
Priority:Low

Status:InProgress  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Coding  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Coding  
Priority:Critical  
Status:Completed  
Address:23 S CLARK  
Category:Enhancement  
DetectionPhase:Design  
Latitude:41.880982  
Longitude:-87.630553  
OriginationPhase:Design  
Priority:High  
Status:Completed  
Address:23 S CLARK  
Category:Enhancement  
DetectionPhase:Coding  
Latitude:41.880982  
Longitude:-87.630553  
OriginationPhase:Coding  
Priority:Critical  
Status:Approved  
Address:2525 S Martin Luther King Drive  
Category:Bug  
DetectionPhase:Testing  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Design  
Priority:Critical  
Status:Rejected  
Address:2525 S Martin Luther King Drive  
Category:Bug  
DetectionPhase:Testing  
Latitude:41.853136  
Longitude:-87.633160  
OriginationPhase:Design  
Priority:Critical  
Status:Rejected  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1919 Dempster Street



Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:1919 Dempster Street  
Category:Bug  
Latitude:42.041392  
Longitude:-87.700113  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1919 Dempster Street  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Design  
Priority:Critical

Status:inProgress  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:5360 Touhy Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.041392  
Longitude:-87.700113  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:5360 Touhy Ave  
Category:Bug  
Latitude:42.041392  
Longitude:-87.700113  
Address:5360 Touhy Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.012343  
Longitude:-87.762210  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:5360 Touhy Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.012343  
Longitude:-87.762210  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:5360 Touhy Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.012343  
Longitude:-87.762210

OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:5360 Touhy Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.012343  
Longitude:-87.762210  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:5360 Touhy Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.012343  
Longitude:-87.762210  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Category:Enhancement  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Category:Bug  
DetectionPhase:Testing  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Testing  
Priority:High  
Status:inProgress

Address:3020 S Halsted St Chicago IL 60608

Category:Bug

DetectionPhase:Design

Latitude:41.838897

Longitude:-87.646804

OriginationPhase:Design

Priority:Medium

Status:Approved

Category:Enhancement

DetectionPhase:Testing

OriginationPhase:Design

Priority:Critical

Status:Completed

Category:Enhancement

DetectionPhase:Testing

OriginationPhase:Design

Priority:Critical

Status:Approved

Category:Enhancement

DetectionPhase:Testing

OriginationPhase:Design

Priority:Major

Status:Completed

Category:Bug

DetectionPhase:Design

Latitude:41.852623

Longitude:-87.611958

OriginationPhase:Design

OriginationPhase:Requirements

Priority:Medium

Status:Approved

Status:inProgress

Status:pendingReview

Category:Inquiry

DetectionPhase:Field

OriginationPhase:Documentation

Priority:Medium

Status:inProgress

Category:Inquiry

DetectionPhase:Field

OriginationPhase:Coding

Priority:Low

Status:pendingReview

Category:Bug

DetectionPhase:Testing

Priority:Critical

Status:Approved

Category:Inquiry

DetectionPhase:Field

OriginationPhase:Coding

Priority:High  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:Medium  
Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Testing  
Priority:Low  
Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Status:inProgress  
Category:Inquiry  
DetectionPhase:Field  
OriginationPhase:Coding  
Priority:High  
Status:pendingReview  
Address:3020 S Halsted St Chicago IL 60608  
Category:Bug  
DetectionPhase:Design  
Latitude:41.838897  
Longitude:-87.646804  
Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:600 N Clark St Chicago IL 60610  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Critical

Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Category:Bug  
DetectionPhase:Design  
Latitude:41.809739  
Longitude:-87.607375  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1664 S Blue Island Ave Chicago IL 60608  
Category:Bug  
DetectionPhase:Design  
Latitude:41.858415  
Longitude:-87.660926  
OriginationPhase:Requirements  
Priority:Critical  
Status:pendingReview  
Address:111 W Jackson Blvd Chicago 60604  
Category:Bug  
DetectionPhase:Design  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:600 N Clark St Chicago IL 60610  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556

OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:59 W Grand Ave Chicago IL 60654  
Category:Bug  
DetectionPhase:Design  
Latitude:41.891368  
Longitude:-87.630399  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:111 W Jackson Blvd Chicago 60604  
Category:Bug  
DetectionPhase:Design  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
Latitude:41.847441  
Longitude:-87.631247  
Status:Approved  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:225 S Canal St Chicago IL 60606  
Category:Bug  
Latitude:41.878693  
Longitude:-87.638924  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:233 W Jackson Blvd Chicago IL 60606  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877948  
Longitude:-87.634926  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2301 S Lake Shore Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958

OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2301 S Lake Shore Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.852623  
Longitude:-87.611958  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Category:Enhancement  
DetectionPhase:Coding  
Latitude:41.809739  
Longitude:-87.607105  
OriginationPhase:Coding  
Priority:Major  
Status:Completed  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:pendingReview  
Address:119 NORTH WABASH  
Category:Bug  
DetectionPhase:Design  
Latitude:41.883772  
Longitude:-87.625962  
OriginationPhase:Design  
Priority:Critical  
Status:Approved



Address:2525 S Martin Luther King Dr  
Category:Bug  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
Priority:Critical  
Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
DetectionPhase:Design  
Priority:Critical  
Status:Approved  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Status:Approved  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Category:Inquiry  
DetectionPhase:Field

OriginationPhase:Testing  
Priority:High  
Status:InProgress  
Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Critical  
Status:pendingReview  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address: 2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847088  
Longitude:-87.616752  
OriginationPhase:Requirements  
Priority:Critical  
Status:InProgress  
Address:111 W Jackson Blvd Chicago 60604  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877846  
Longitude:-87.631296  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847441  
Longitude:-87.679408  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:420 Desplaines Ave Forest Park IL 60130  
Category:Bug  
Latitude:41.879094  
Longitude:-87.813483  
OriginationPhase:Requirements  
Status:Approved  
Address:111 W Jackson Blvd Chicago IL 60604  
Category:Bug

DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:2525 S King Dr Chicago IL 60616  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.617419  
OriginationPhase:Requirements  
Priority:Critical  
Status:inProgress  
Address:420 Desplaines Ave Forest Park IL 60130  
Category:Bug  
DetectionPhase:Design  
Latitude:41.879094  
Longitude:-87.813483  
OriginationPhase:Design  
Priority:Medium  
Status:Approved  
Address:111 W JACKSON  
Category:Bug  
DetectionPhase:Design  
Latitude:41.877817  
Longitude:-87.631247  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:11111 W 179th St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:11111 W 179th St  
Category:Enhancement  
Latitude:41.564039  
Longitude:-87.888768  
Address:11111 W 179th St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Critical  
Status:Approved

Address:11111 W 179th St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:11111 W 179th St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:11111 W 179th St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:11111 W 179th St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:11111 W 179th St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:11111 W 179th St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:11111 W 179th St  
Category:Bug

DetectionPhase:Design  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:11111 W 179th St  
Category:Enhancement  
Latitude:41.564039  
Longitude:-87.888768  
Address:11111 W 179th St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:11111 W 179th St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:11111 W 179th St  
Category:Bug  
DetectionPhase:Testing  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:11111 W 179th St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:11111 W 179th St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:41.564039  
Longitude:-87.888768  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress

Address:2525 S Martin Luther King Dr  
Category:Bug  
DetectionPhase:Design  
Latitude:41.847095  
Longitude:-87.616767  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:600 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:41.893020  
Longitude:-87.631556  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1117 Howard St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:1117 Howard St  
Category:Enhancement  
Latitude:42.019798  
Longitude:-87.687698  
Address:1117 Howard St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1117 Howard St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:1117 Howard St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Design

Priority:Critical  
Status:Approved  
Address:1117 Howard St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1117 Howard St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:1117 Howard St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:1117 Howard St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1117 Howard St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:1117 Howard St  
Category:Enhancement  
Latitude:42.019798  
Longitude:-87.687698  
Address:1117 Howard St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.019798

Longitude:-87.687698  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1117 Howard St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:1117 Howard St  
Category:Bug  
DetectionPhase:Testing  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1117 Howard St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1117 Howard St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:42.019798  
Longitude:-87.687698  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:1740 Orrington Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:1740 Orrington Ave  
Category:Enhancement  
Latitude:42.049570  
Longitude:-87.680380  
Address:1740 Orrington Ave  
Category:Inquiry



DetectionPhase:Design  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1740 Orrington Ave  
Category:Bug  
DetectionPhase:Testing  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:1740 Orrington Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1740 Orrington Ave  
Category:Inquiry  
DetectionPhase:Design  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1740 Orrington Ave  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:1740 Orrington Ave  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:1740 Orrington Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049570

Longitude:-87.680380  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1740 Orrington Ave  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:1740 Orrington Ave  
Category:Enhancement  
Latitude:42.049570  
Longitude:-87.680380  
Address:1740 Orrington Ave  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1740 Orrington Ave  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:1740 Orrington Ave  
Category:Bug  
DetectionPhase:Testing  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:1740 Orrington Ave  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:1740 Orrington Ave  
Category:Inquiry

DetectionPhase:Design  
Latitude:42.049570  
Longitude:-87.680380  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:7523 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:7523 N Clark St  
Category:Enhancement  
Latitude:42.049920  
Longitude:-87.683360  
Address:7523 N Clark St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:7523 N Clark St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview  
Address:7523 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:7523 N Clark St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved

Address:7523 N Clark St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:7523 N Clark St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Requirements  
Priority:Medium  
Status:inProgress  
Address:7523 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:7523 N Clark St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:7523 N Clark St  
Category:Enhancement  
Latitude:42.049920  
Longitude:-87.683360  
Address:7523 N Clark St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:7523 N Clark St  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Requirements

Priority:Medium  
Status:pendingReview  
Address:7523 N Clark St  
Category:Bug  
DetectionPhase:Testing  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Critical  
Status:Approved  
Address:7523 N Clark St  
Category:Inquiry  
DetectionPhase:Testing  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Requirements  
Priority:Medium  
Status:Approved  
Address:7523 N Clark St  
Category:Inquiry  
DetectionPhase:Design  
Latitude:42.049920  
Longitude:-87.683360  
OriginationPhase:Design  
Priority:Critical  
Status:inProgress  
Address:3700 Touhy Avenue  
Category:Bug  
DetectionPhase:Design  
Latitude:42.012210  
Longitude:-87.721440  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:1115 Emerson St  
Category:Bug  
DetectionPhase:Design  
Latitude:42.052330  
Longitude:-87.687000  
OriginationPhase:Design  
Priority:Medium  
Status:pendingReview  
Address:3535 Dempster Street  
Category:Enhancement  
DetectionPhase:Testing  
Latitude:42.034912  
Longitude:-87.637410  
OriginationPhase:Requirements  
Priority:Medium  
Status:pendingReview

Address:1729 Sherman Ave  
 Category:Enhancement  
 Latitude:42.049540  
 Longitude:-87.681330  
 Address:1241 Chicago Ave  
 Category:Inquiry  
 DetectionPhase:Testing  
 Latitude:42.049541  
 Longitude:-87.681328  
 OriginationPhase:Design  
 Priority:Critical  
 Status:Approved  
 Address:1700 Sherman Ave  
 Category:Bug  
 DetectionPhase:Design  
 Latitude:42.040640  
 Longitude:-87.680340  
 OriginationPhase:Design  
 Priority:Critical  
 Status:Approved  
 Address:3232 Lake Ave  
 Category:Inquiry  
 DetectionPhase:Design  
 Latitude:42.081620  
 Longitude:-87.756620  
 OriginationPhase:Requirements  
 Priority:Medium  
 Status:Approved

In [10]: *#Sanity test the content of the dataframe object*

```

wrangled_issues_df.head()
print(wrangled_issues_df.OriginationPhase.unique())
print(wrangled_issues_df.DetectionPhase.unique())

```

```

['Design' 'Requirements' nan 'Coding' 'Field' 'Documentation' 'Testing']
['Testing' 'Design' nan 'Field' 'Coding']

```

## Plot in Stacked Bar Chart the total number of issues created every day for every Detection Phase

```

In [11]: github_issues_by_date_created_detectionphase = wrangled_issues_df.groupby(['created_at', 'DetectionPhase']).created_at.count()
github_issues_by_date_created_detectionphase

```

Out[11]: created\_at DetectionPhase

2018-01-10	Design	1
2018-01-12	Testing	1
2018-01-13	Testing	1
2018-02-10	Design	5
2018-02-11	Design	2
2018-02-12	Design	3
	Field	4
	Testing	1
2018-02-13	Testing	3
2018-02-14	Design	9
	Testing	3
2018-03-10	Design	6
2018-03-12	Design	2
	Testing	2
2018-03-13	Field	2
	Testing	3
2018-03-30	Testing	2
2018-04-02	Testing	1
2018-04-08	Testing	1
2018-04-09	Coding	11
	Design	16
	Field	14
	Testing	11
2018-04-10	Design	51
	Field	2
	Testing	2
2018-04-11	Coding	2
	Design	64
	Field	2
2018-04-12	Design	8
	Field	19
	Testing	23
2018-04-13	Coding	1
	Design	1
	Field	21
	Testing	15
2018-04-14	Design	3
	Field	2
	Testing	3
2018-04-19	Design	2
2018-04-20	Field	2
2018-05-10	Design	6
2018-05-12	Design	1
	Testing	3
2018-05-14	Design	3
	Testing	4
2018-06-10	Design	3
2018-06-12	Design	1
	Testing	3
2018-06-14	Design	3

```

                Testing          4
2018-07-10    Design          5
2018-07-12    Design          1
                Testing          5
2018-07-14    Design          5
                Testing          4
Name: created_at, dtype: int64

```

```
In [12]: github_issues_by_date_created_detectionphase.unstack()
```

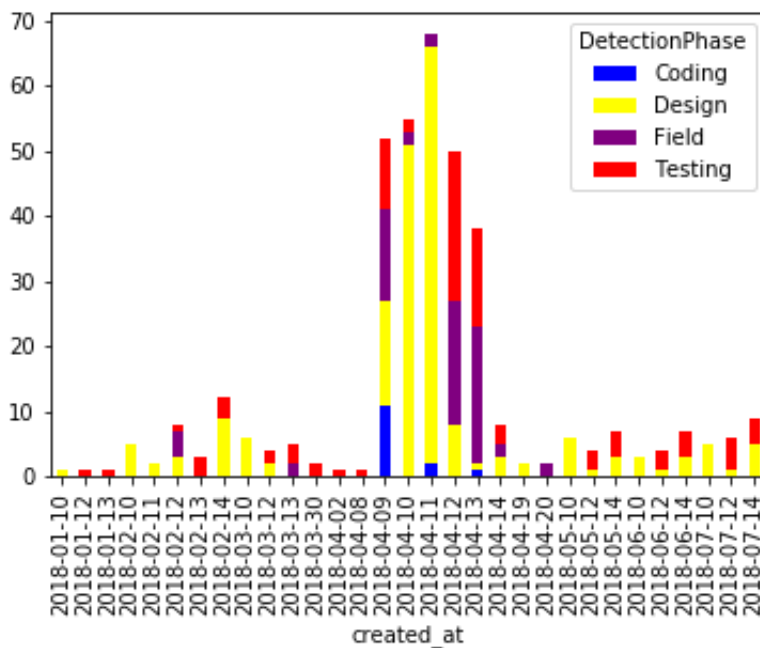
```
Out[12]:
```

DetectionPhase	Coding	Design	Field	Testing
created_at				
2018-01-10	NaN	1.0	NaN	NaN
2018-01-12	NaN	NaN	NaN	1.0
2018-01-13	NaN	NaN	NaN	1.0
2018-02-10	NaN	5.0	NaN	NaN
2018-02-11	NaN	2.0	NaN	NaN
2018-02-12	NaN	3.0	4.0	1.0
2018-02-13	NaN	NaN	NaN	3.0
2018-02-14	NaN	9.0	NaN	3.0
2018-03-10	NaN	6.0	NaN	NaN
2018-03-12	NaN	2.0	NaN	2.0
2018-03-13	NaN	NaN	2.0	3.0
2018-03-30	NaN	NaN	NaN	2.0
2018-04-02	NaN	NaN	NaN	1.0
2018-04-08	NaN	NaN	NaN	1.0
2018-04-09	11.0	16.0	14.0	11.0
2018-04-10	NaN	51.0	2.0	2.0
2018-04-11	2.0	64.0	2.0	NaN
2018-04-12	NaN	8.0	19.0	23.0
2018-04-13	1.0	1.0	21.0	15.0
2018-04-14	NaN	3.0	2.0	3.0
2018-04-19	NaN	2.0	NaN	NaN
2018-04-20	NaN	NaN	2.0	NaN
2018-05-10	NaN	6.0	NaN	NaN



2018-05-12	NaN	1.0	NaN	3.0
2018-05-14	NaN	3.0	NaN	4.0
2018-06-10	NaN	3.0	NaN	NaN
2018-06-12	NaN	1.0	NaN	3.0
2018-06-14	NaN	3.0	NaN	4.0
2018-07-10	NaN	5.0	NaN	NaN
2018-07-12	NaN	1.0	NaN	5.0
2018-07-14	NaN	5.0	NaN	4.0

```
In [13]: github_issues_by_date_created_detectionphase_fig = github_issues_by_date_created_detectionphase.unstack().plot(kind='bar',stacked=True, color=['blue', 'yellow', 'purple', 'red', 'green'], grid=False)
```



```
In [14]: wrangled_issues_df
```

```
Out[14]:
```

	Author	State	closed_at	created_at	issue_number	OriginationPhase	DetectionPI
0	SPM587SP18	closed	2018-04-09	2018-04-02	803	Design	Te:
1	SPM587SP18	closed	2018-04-06	2018-03-30	802	Design	Te:
2	PEngineer54P	closed	2018-08-	2018-05-	894	Requirements	De

			10	10			
3	PEngineer99P	closed	2018-08-11	2018-04-10	891	Design	De
4	JEngineer54B	closed	2018-08-11	2018-06-10	888	NaN	
5	CEngineer41G	closed	2018-06-11	2018-04-10	887	Design	De
6	AEngineer91K	closed	2018-06-11	2018-03-10	886	Requirements	De
7	KEngineer68P	closed	2018-06-11	2018-04-10	882	Design	De
8	PEngineer48S	closed	2018-06-10	2018-05-10	881	Requirements	De
9	SEngineer01V	closed	2018-06-10	2018-05-10	880	Design	De
10	REngineer13S	closed	2018-04-11	2018-04-10	879	Requirements	De
11	MEngineer47B	closed	2018-04-11	2018-02-10	878	Requirements	De
12	PEngineer54P	closed	2018-04-10	2018-04-10	694	Requirements	De
13	PEngineer99P	closed	2018-04-11	2018-02-10	691	Design	De
14	JEngineer54B	closed	2018-04-11	2018-04-10	688	NaN	
15	CEngineer41G	closed	2018-04-11	2018-02-10	687	Design	De
16	AEngineer91K	closed	2018-04-11	2018-04-10	686	Requirements	De
17	KEngineer68P	closed	2018-04-11	2018-04-10	682	Design	De

18	PEngineer48S	closed	2018-04-10	2018-04-10	681	Requirements	De
19	SEngineer01V	closed	2018-04-10	2018-04-10	680	Design	De
20	REngineer13S	closed	2018-04-11	2018-01-10	679	Requirements	De
21	MEngineer47B	closed	2018-04-11	2018-04-10	678	Requirements	De
22	SEngineer01V	closed	2018-04-10	2018-04-10	677	Requirements	De
23	PEngineer73A	closed	2018-04-10	2018-02-10	675	Requirements	De
24	KEngineer22B	closed	2018-04-11	2018-02-10	670	Design	De
25	SEngineer86K	closed	2018-04-10	2018-04-10	667	Requirements	De
26	JEngineer08Y	closed	2018-04-10	2018-03-10	664	Requirements	De
27	MEngineer38Y	closed	2018-04-11	2018-04-09	661	Requirements	De
28	HEngineer23P	closed	2018-04-10	2018-04-09	660	Requirements	De
29	PEngineer08M	closed	2018-04-10	2018-04-09	658	Design	
...	...	...	...	...	...	...	
380	PEngineer99P	closed	2018-08-11	2018-06-10	3991	Design	De
381	JEngineer54B	closed	2018-08-11	2018-06-09	3988	NaN	
382	CEngineer41G	closed	2018-08-11	2018-06-12	3987	Design	Te
383	AEngineer91K	closed	2018-08-11	2018-06-12	3986	Requirements	Te
384	KEngineer68P	closed	2018-08-11	2018-06-14	3982	Design	Te
385	PEngineer48S	closed	2018-08-10	2018-06-14	3981	Requirements	Te

386	SEngineer01V	closed	2018-08-10	2018-06-14	3980	Design	De
387	PEngineer99P	closed	2018-09-23	2018-07-10	4791	Design	De
388	JEngineer54B	closed	2018-09-21	2018-07-09	4788	NaN	
389	CEngineer41G	closed	2018-09-21	2018-07-12	4787	Design	De
390	AEngineer91K	closed	2018-09-21	2018-07-12	4786	Requirements	Te
391	KEngineer68P	closed	2018-09-21	2018-07-14	4782	Design	De
392	PEngineer48S	closed	2018-09-20	2018-07-14	4781	Requirements	De
393	SEngineer01V	closed	2018-08-10	2018-07-14	4780	Design	Te
394	REngineer13S	closed	2018-09-21	2018-07-14	4779	Requirements	Te
395	MEngineer47B	closed	2018-09-21	2018-07-10	4778	Requirements	De
396	PEngineer99P	closed	2018-08-21	2018-07-10	4991	Design	De
397	JEngineer54B	closed	2018-08-21	2018-07-09	4988	NaN	
398	CEngineer41G	closed	2018-08-21	2018-07-12	4987	Design	Te
399	AEngineer91K	closed	2018-08-21	2018-07-12	4986	Requirements	Te
400	KEngineer68P	closed	2018-08-21	2018-07-14	4982	Design	Te
401	PEngineer48S	closed	2018-08-20	2018-07-14	4981	Requirements	Te
402	SEngineer01V	closed	2018-08-20	2018-07-14	4980	Design	De
403	PEngineer99P	closed	2018-09-23	2018-07-10	5791	Design	De
404	PEngineer99P	closed	2018-09-23	2018-07-10	5792	Design	De
405	AEngineer91K	closed	2018-09-21	2018-07-12	5793	Requirements	Te
			2018-09-	2018-07-			

406	JEngineer54B	closed	21	09	5794	NaN	
407	CEngineer41G	closed	2018-08-21	2018-07-12	5795	Design	Te
408	KEngineer68P	closed	2018-09-21	2018-07-14	5796	Design	De
409	PEngineer48S	closed	2018-09-20	2018-07-14	5797	Requirements	De

410 rows x 13 columns

## Plot in Stacked Bar Chart the total number of issues created for detection Phase based on thier priorities

```
In [15]: github_issues_by_priority_detectionphase = wrangled_issues_df.groupby(
[ 'Priority', 'DetectionPhase' ]).created_at.count()
github_issues_by_priority_detectionphase
```

```
Out[15]: Priority DetectionPhase
Critical Coding 5
          Design 85
          Field 4
          Testing 57
High       Design 3
          Field 43
          Testing 3
Low        Coding 3
          Design 1
          Field 7
          Testing 2
Major      Coding 4
          Design 1
          Field 2
          Testing 14
Medium     Coding 1
          Design 106
          Field 11
          Testing 18
Name: created_at, dtype: int64
```

```
In [16]: github_issues_by_priority_detectionphase.unstack()
```

```
Out[16]:
```

DetectionPhase	Coding	Design	Field	Testing
Priority				
Critical	5.0	85.0	4.0	57.0
High	NaN	3.0	43.0	3.0
Low	3.0	1.0	7.0	2.0
Major	4.0	1.0	2.0	14.0
Medium	1.0	106.0	11.0	18.0

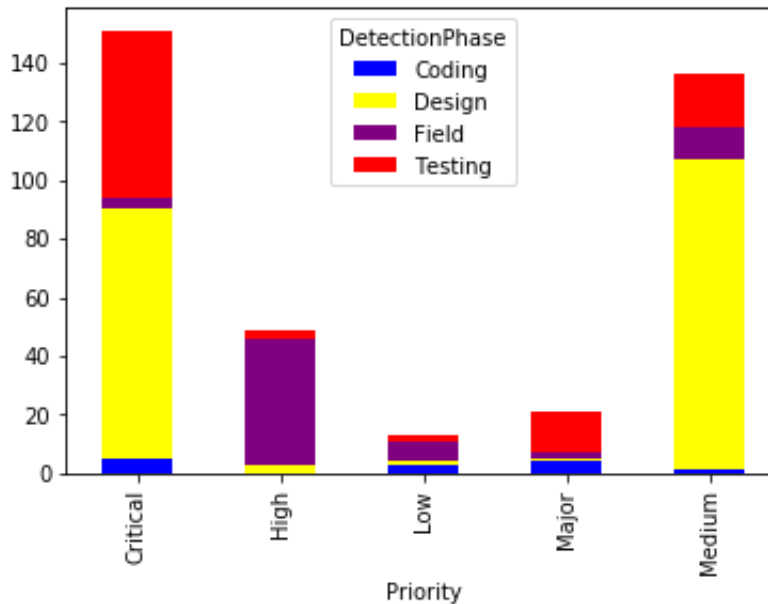
[starts w same groupby]

```
In [17]: # Plot in Stacked Bar Chart the total number of issues created for det
         # ection Phase based on thier priorities

github_issues_by_priority_detectionphase = wrangled_issues_df.groupby(
    ['Priority', 'DetectionPhase']).created_at.count()
github_issues_by_priority_detectionphase
```

```
Out[17]: Priority DetectionPhase
Critical Coding 5
          Design 85
          Field 4
          Testing 57
High Design 3
      Field 43
      Testing 3
Low Coding 3
   Design 1
   Field 7
   Testing 2
Major Coding 4
      Design 1
      Field 2
      Testing 14
Medium Coding 1
       Design 106
       Field 11
       Testing 18
Name: created_at, dtype: int64
```

```
In [18]: github_issues_by_priority_detectionphase_fig = github_issues_by_priority_detectionphase.unstack().plot(kind='bar', stacked=True, color=['blue', 'yellow', 'purple', 'red', 'green'], grid=False)
```



## Plot in Stacked Bar Chart the total number of issues closed every day for every Category

```
In [19]: github_issues_by_closed_date_category = wrangled_issues_df.groupby(['closed_at', 'Category']).closed_at.count()
github_issues_by_closed_date_category
```

```

Out[19]: closed_at    Category
2018-04-06    Bug                2
2018-04-09    Bug                2
2018-04-10    Bug               25
2018-04-11    Bug             115
                Enhancement        3
                Inquiry           1
2018-04-12    Bug                8
                Enhancement        4
                Inquiry          15
2018-04-13    Bug               18
                Enhancement       26
                Inquiry          34
2018-04-14    Enhancement        2
                Inquiry           2
2018-04-22    Bug                2
                Inquiry           2
2018-06-10    Bug                6
                Enhancement        2
                Inquiry           6
2018-06-11    Bug              13
                Enhancement        4
                Inquiry           4
2018-07-11    Bug                2
                Inquiry           2
2018-08-10    Bug                3
                Enhancement        2
                Inquiry           2
2018-08-11    Bug              12
                Enhancement        6
                Inquiry           1
2018-08-20    Inquiry           2
2018-08-21    Bug                2
                Enhancement        2
                Inquiry           2
2018-09-10    Inquiry           1
2018-09-11    Bug                3
                Enhancement        1
                Inquiry           1
2018-09-20    Inquiry           2
2018-09-21    Bug                3
                Enhancement        4
                Inquiry           2
2018-09-23    Bug                3
Name: closed_at, dtype: int64

```



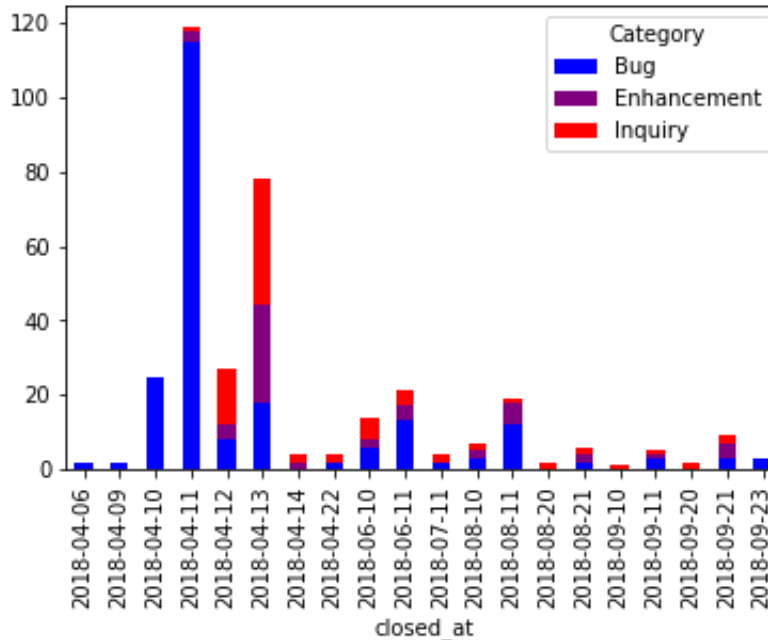
```
In [20]: github_issues_by_closed_date_category.unstack()
```

Out[20]:

Category	Bug	Enhancement	Inquiry
closed_at			
2018-04-06	2.0	NaN	NaN
2018-04-09	2.0	NaN	NaN
2018-04-10	25.0	NaN	NaN
2018-04-11	115.0	3.0	1.0
2018-04-12	8.0	4.0	15.0
2018-04-13	18.0	26.0	34.0
2018-04-14	NaN	2.0	2.0
2018-04-22	2.0	NaN	2.0
2018-06-10	6.0	2.0	6.0
2018-06-11	13.0	4.0	4.0
2018-07-11	2.0	NaN	2.0
2018-08-10	3.0	2.0	2.0
2018-08-11	12.0	6.0	1.0
2018-08-20	NaN	NaN	2.0
2018-08-21	2.0	2.0	2.0
2018-09-10	NaN	NaN	1.0
2018-09-11	3.0	1.0	1.0
2018-09-20	NaN	NaN	2.0
2018-09-21	3.0	4.0	2.0
2018-09-23	3.0	NaN	NaN

```
In [21]: github_issues_by_closed_date_category = wrangled_issues_df.groupby(['closed_at', 'Category']).closed_at.count()

github_issues_by_closed_date_category_fig = github_issues_by_closed_date_category.unstack().plot(kind='bar', stacked=True, color=['blue', 'purple', 'red'], grid=False)
```



## Lets plot the issues on a HeatMap

We will use Folium HeatMap to plot on a HeatMap our GitHub issues using Latitude and Longitude pairs. Here is the API documentation for Folium/HeatMap

[Folium/HeatMap API \(http://python-visualization.github.io/folium/docs-v0.5.0/plugins.html\)](http://python-visualization.github.io/folium/docs-v0.5.0/plugins.html)

Here is the command that you execute from the terminal window in order to install Folium:

- `conda install -c conda-forge folium`

```
In [22]: import folium
from folium import plugins
```

```
In [23]: # Lets take a VERTICAL SLICE ['Latitude','Longitude'] of the dataframe object

df_lat_lng = wrangled_issues_df[['Latitude','Longitude']]
df_lat_lng.shape
```

Out[23]: (410, 2)

```
In [24]: #Sanity test the content of the dataframe object

df_lat_lng.head()
```

Out[24]:

	Latitude	Longitude
0	41.853136	-87.633160
1	41.853136	-87.633160
2	41.877817	-87.631247
3	42.041392	-87.700113
4	42.041392	-87.700113

```
In [25]: # Lets create a list of ['Latitude','Longitude'] pairs to feed into the HeatMap object

github_issues_coord = []

for i in range(0, len(df_lat_lng)):
    location_ll = []
    if (pd.notnull(df_lat_lng.iloc[i]['Latitude']) and pd.notnull(df_lat_lng.iloc[i]['Longitude'])):
        # print(df_lat_lng.iloc[i]['Latitude'], df_lat_lng.iloc[i]['Longitude'])
        location_ll.append(float(df_lat_lng.iloc[i]['Latitude']))
        location_ll.append(float(df_lat_lng.iloc[i]['Longitude']))
        github_issues_coord.append(location_ll)
```

```
In [26]: github_issues_heat_map = folium.Map([41.891551, -87.607375], zoom_start
= 16)
github_issues_heat_map.add_child(plugins.HeatMap(github_issues_coord, r
adius=15))

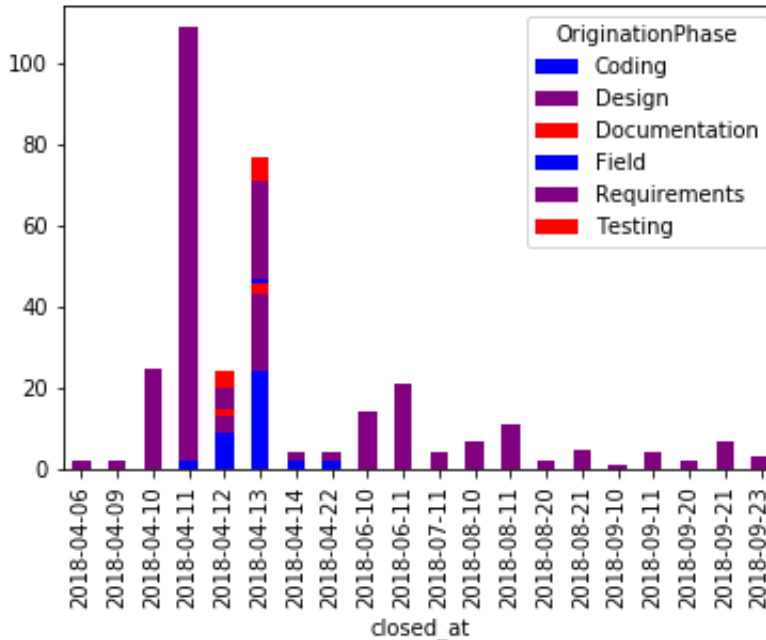
# interact with the map below by zooming in/out
# Experiment with zoom_start and radius parameters of the HeatMap by u
sing differen values
```

Out[26]:

## Requirement #1:

Plot in Stacked Bar Chart the total number of issues closed every day for every Origination Phase

```
In [27]: github_issues_by_closed_date_origination = wrangled_issues_df.groupby(
['closed_at', 'OriginationPhase']).closed_at.count()
github_issues_by_closed_date_origination_fig = github_issues_by_closed_date_origination.unstack().plot(kind='bar', stacked=True, color=['blue', 'purple', 'red'], grid=False)
```



## Requirement #2:

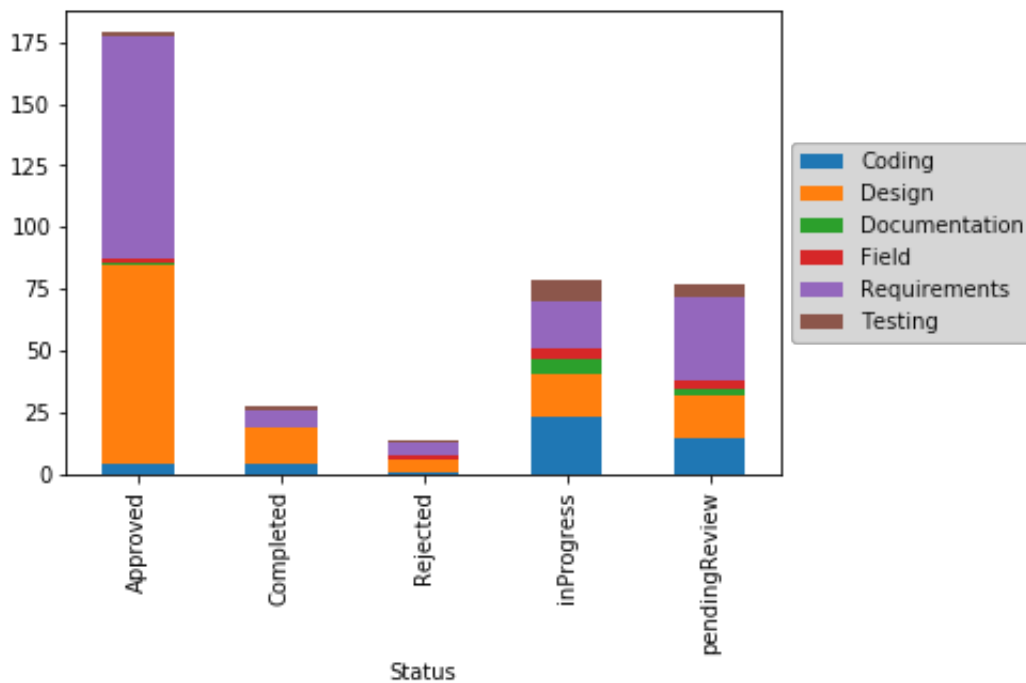
Plot in Stacked Bar Chart the total number of issues created for every Phase based on their Status

I've gotten phases for Origination, Detection and for both; so 3 different ways shown. I could not find the tutorial and searched through all the help folders for origination and detection for which might match your question but was unable. What I haven't done is to blend Origination and Detection as that would cause double counting where e.g. if a row contains testing for Origination and testing for Detection. For Origination phases

```
In [28]: github_issues_by_status_phase = wrangled_issues_df.groupby(['Status',
'OriginationPhase']).created_at.count()
github_issues_by_status_phase_fig = github_issues_by_status_phase.unstack().plot(kind='bar',stacked=True, grid=False)
plt.legend(loc='center left', bbox_to_anchor=(1, 0.5))
github_issues_by_status_phase.unstack()
```

Out[28]:

OriginationPhase	Coding	Design	Documentation	Field	Requirements	Testing
Status						
Approved	4.0	81.0	1.0	1.0	90.0	2.0
Completed	4.0	15.0	NaN	NaN	7.0	2.0
Rejected	1.0	5.0	NaN	2.0	5.0	1.0
inProgress	23.0	18.0	6.0	4.0	19.0	9.0
pendingReview	15.0	17.0	3.0	3.0	34.0	5.0



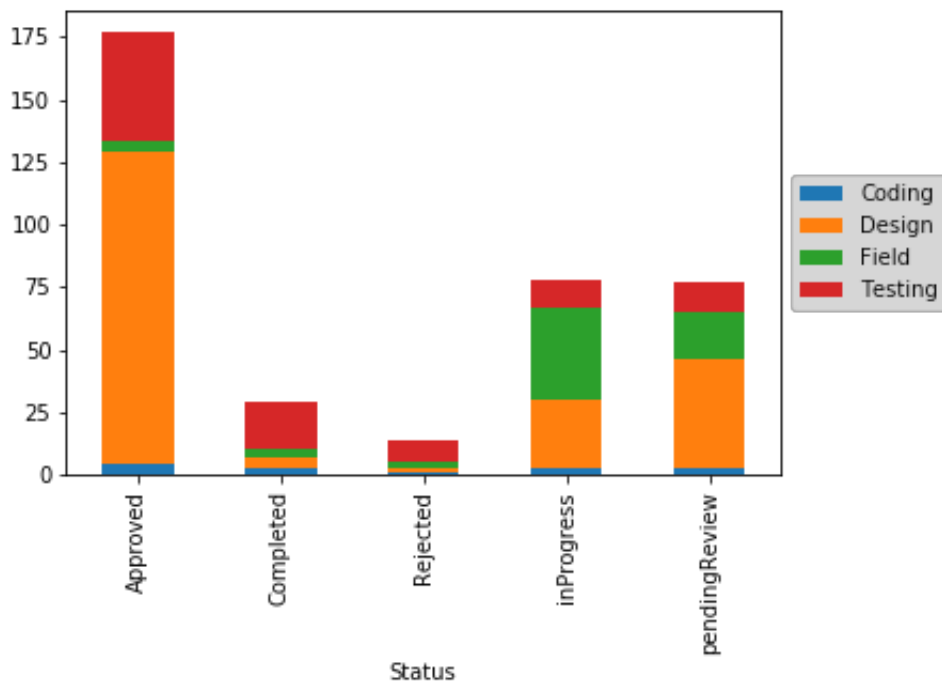
For Detection phases

```
In [29]: github_issues_by_status_phase = wrangled_issues_df.groupby(['Status',
'DetectionPhase']).created_at.count()
github_issues_by_status_phase_fig = github_issues_by_status_phase.unstack().plot(kind='bar',stacked=True, grid=False)
plt.legend(loc='center left', bbox_to_anchor=(1, 0.5))
github_issues_by_status_phase.unstack()
```

Out[29]:

DetectionPhase Coding Design Field Testing

Status				
Approved	4	125	4	44
Completed	3	4	3	19
Rejected	1	2	2	9
inProgress	3	27	37	11
pendingReview	3	43	19	12



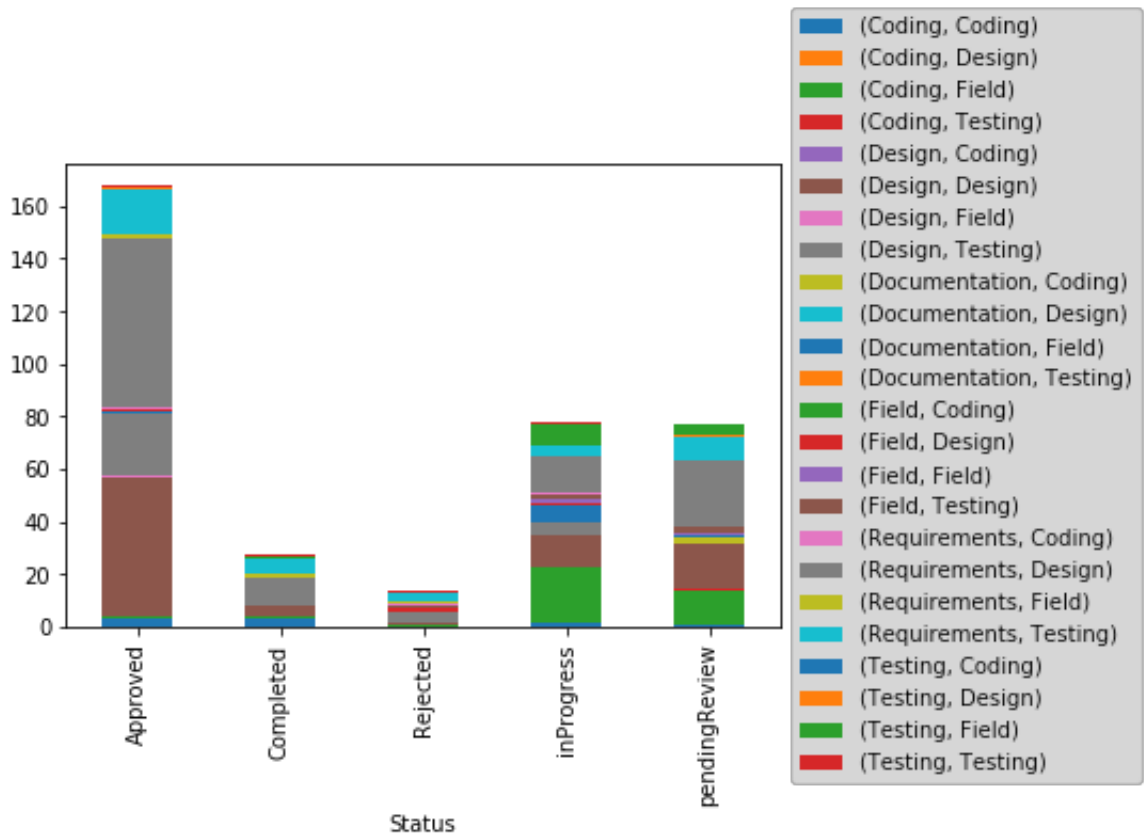
For combinations of origination and detection.

```
In [30]: github_issues_by_status_phase = wrangled_issues_df.groupby(['Status',
'DetectionPhase', 'OriginationPhase']).created_at.count()
github_issues_by_status_phase_fig = github_issues_by_status_phase.unstack().unstack().plot(kind='bar', stacked=True, grid=False)
plt.legend(loc='center left', bbox_to_anchor=(1, 0.5))
github_issues_by_status_phase.unstack().unstack()
```

Out[30]:

OriginationPhase	Coding				Design				Documentati	
DetectionPhase	Coding	Design	Field	Testing	Coding	Design	Field	Testing	Coding	Des
Status										
Approved	3.0	NaN	1.0	NaN	NaN	53.0	1.0	23.0	NaN	1
Completed	3.0	NaN	1.0	NaN	NaN	4.0	NaN	11.0	NaN	1
Rejected	NaN	NaN	1.0	NaN	NaN	1.0	NaN	4.0	NaN	1
inProgress	2.0	NaN	21.0	NaN	NaN	12.0	NaN	5.0	NaN	1
pendingReview	1.0	NaN	13.0	1.0	NaN	17.0	NaN	NaN	2.0	1

5 rows × 24 columns





## Requirement #3:

Create Folium HeatMap for issues that have Priority equals to Critical

```
In [37]: df_lat_lng_crit = wrangled_issues_df[wrangled_issues_df.Priority=="Critical"][['Latitude', 'Longitude']]
df_lat_lng_crit.dropna(inplace=True)
df_lat_lng_crit.shape
```

Out[37]: (111, 2)

```
In [43]: df_lat_lng_crit = wrangled_issues_df[wrangled_issues_df.Priority=="Critical"][['Latitude', 'Longitude']]
df_lat_lng_crit.dropna(inplace=True)

github_crit_issues_coord = []
for i in range(0, len(df_lat_lng_crit)):
    location_ll = []
    if (pd.notnull(df_lat_lng_crit.iloc[i]['Latitude']) and pd.notnull(df_lat_lng_crit.iloc[i]['Longitude'])):
        # print(df_lat_lng_crit.iloc[i]['Latitude'], df_lat_lng_crit.iloc[i]['Longitude'])
        location_ll.append(float(df_lat_lng_crit.iloc[i]['Latitude']))
        location_ll.append(float(df_lat_lng_crit.iloc[i]['Longitude']))
    github_crit_issues_coord.append(location_ll)

len(github_crit_issues_coord)
```

Out[43]: 111

```
In [44]: github_crit_issues_heat_map = folium.Map([41.891551, -87.607375], zoom_start = 16)
github_crit_issues_heat_map.add_child(plugins.HeatMap(github_crit_issues_coord, radius=15))

# interact with the map below by zooming in/out
# Experiment with zoom_start and radius parameters of the HeatMap by using different values
```

Out[44]:

## Requirement #4:

Create Folium HeatMap for issues that have Priority equals to Critical or High AND Status is Approved or inProgress

```
In [53]: wrangled_hcaip_issues_df = wrangled_issues_df[(wrangled_issues_df.Priority.isin(['High', 'Critical'])) & (wrangled_issues_df.Status.isin(['Approved', 'InProgress']))].copy()
wrangled_hcaip_issues_df.shape
```

Out[53]: (153, 13)

```
In [54]: df_lat_lng_hcaip = wrangled_hcaip_issues_df[['Latitude', 'Longitude']].  
copy()  
print('before', df_lat_lng_hcaip.shape)  
df_lat_lng_hcaip.dropna(inplace=True)  
print('after', df_lat_lng_hcaip.shape)  
github_hcaip_issues_coord = []  
for i in range(0, len(df_lat_lng_hcaip)):  
    location_ll = []  
    if (pd.notnull(df_lat_lng_hcaip.iloc[i]['Latitude']) and pd.notn  
ull(df_lat_lng_hcaip.iloc[i]['Longitude'])):  
        # print(df_lat_lng_hcaip.iloc[i]['Latitude'], df_lat_lng_hcaip.  
iloc[i]['Longitude'])  
        location_ll.append(float(df_lat_lng_hcaip.iloc[i]['Latitude'])  
)  
        location_ll.append(float(df_lat_lng_hcaip.iloc[i]['Longitude']  
)  
)  
        github_hcaip_issues_coord.append(location_ll)  
len(github_hcaip_issues_coord)
```

before (153, 2)

after (97, 2)

Out[54]: 97

```
In [55]: github_hcaip_issues_coord = folium.Map([41.891551, -87.607375], zoom_start = 16)
github_hcaip_issues_coord.add_child(plugins.HeatMap(github_crit_issues_coord, radius=15))
```

Out[55]:

## Requirement #5:

Create Folium HeatMap for issues that have Field as the DetectionPhase and created during the month of April, 2018.

```
In [59]: wrangled_418field_issues_df = wrangled_issues_df[(wrangled_issues_df.DetectionPhase=='Field') & (wrangled_issues_df.created_at.str[2:4]=='18') & (wrangled_issues_df.created_at.str[5:7]=='04')].copy()
wrangled_418field_issues_df.shape
```

Out[59]: (62, 13)

```
In [61]: df_lat_lng_418field = wrangled_418field_issues_df[['Latitude', 'Longitude']].copy()
print('before', df_lat_lng_418field.shape)
df_lat_lng_418field.dropna(inplace=True)
print('sfter', df_lat_lng_418field.shape)

github_418field_issues_coord = []
for i in range(0, len(df_lat_lng_418field)):
    location_ll = []
    if (pd.notnull(df_lat_lng_418field.iloc[i]['Latitude']) and pd.notnull(df_lat_lng_418field.iloc[i]['Longitude'])):
#         print(df_lat_lng_418field.iloc[i]['Latitude'], df_lat_lng_418field.iloc[i]['Longitude'])
        location_ll.append(float(df_lat_lng_418field.iloc[i]['Latitude']))
        location_ll.append(float(df_lat_lng_418field.iloc[i]['Longitude']))
    github_418field_issues_coord.append(location_ll)

len(github_418field_issues_coord)

before (62, 2)
sfter (13, 2)
```

Out[61]: 13

```
In [62]: github_issues_heat_map = folium.Map([41.891551, -87.607375], zoom_start
        = 16)
        github_issues_heat_map.add_child(plugins.HeatMap(github_418field_issues_coord, radius=15))
```

Out[62]:

In [ ]: